

APPENDIX A

```
--
-- TablesMSSQL.sql
--
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-- Description:
--
--      Blueprint database schema for MS SQLServer.
```

```
-----
-- Table: TrouxServers
-----
```

```
-----
create table TrouxServers
(
    serverId decimal(28, 0) identity not null,
    name varchar(256) not null,
    constraint pk_TrouxServers primary key (serverId)
);
```

```
--@|*
```

```
-----
-- Table: Query
-----
```

```
-----
create table Query
(
    version decimal(28, 0) default 0 not null,
    queryId decimal(28, 0) identity not null,
    name varchar(256) not null,
    description varchar(1024) not null,
    creationDate datetime not null,
    lastModifiedDate datetime not null,
    finished bit not null,
    componentFilter text not null,
    relationshipFilter text null,
    logIt bit not null,
    uuid varchar(256) not null,
    constraint pk_Query primary key (queryId)
);
```

```
--@|*
```

```
create table QueryVersions
```

```
(
    version decimal(28, 0) default 0 not null,
```

```
        queryId decimal(28, 0) not null,
        name varchar(256) not null,
        description varchar(1024) not null,
        creationDate datetime not null,
        lastModifiedDate datetime not null,
        finished bit not null,
        componentFilter text null,
        relationshipFilter text null,
        logIt bit not null,
        uuid varchar(256) not null,
        constraint pk_QueryV primary key (queryId, version)
    );

--@|*

-----
-- Table: UserProfile
-----
create table UserProfile
(
    userProfileId decimal(28, 0) identity not null,
    username varchar(256) not null,
    name varchar(256) not null,
    lastLoginDate datetime null,
    defaultQueryId decimal(28, 0) null,
    isDeleted bit not null,
    constraint pk_UserProfile primary key (userProfileId)
)

--@|*

-----
-- Table: UserProfileToQuery
-----
create table UserProfileToQuery
(
    userProfileId decimal(28, 0) not null,
    queryId decimal(28, 0) not null,
    constraint pk_UserProfileToQuery primary key (userProfileId, queryId)
)

--@|*

-----
-- Table: LogEntryType
-----
create table LogEntryType
(
    logEntryType decimal(28, 0) not null,
```

```
        name varchar(1024) not null,
        constraint pk_LogEntryType primary key (logEntryType)
    );

--@|*

-----
-----
-- Table: Log
-----
-----
create table Log
(
    logId decimal(28, 0) identity not null,
    serverId decimal(28, 0) null,
    userId decimal(28, 0) null,
    logDate datetime not null,
    logEntryType decimal(28, 0) not null,
    objectId decimal(28, 0) null,
    newVersion decimal(28, 0) null,
    constraint pk_Log primary key (logId)
);

--@|*

-----
-----
-- Table: ChangeContext
-----
-----
create table ChangeContext
(
    serverId decimal(28, 0) null,
    userId decimal(28, 0) null
);

--@|*

insert into ChangeContext(serverId, userId) values(null, null);

--@|*

-----
-----
-- Table: Blueprint
-----
-----
create table Blueprint
(
    version decimal(28, 0) default 1 not null,
    blueprintId decimal(28, 0) identity not null,
    name varchar(256) not null,
    description varchar(512) not null,
```

```
        isScenario bit not null,  
        creationDate datetime not null,  
        lastModifiedDate datetime not null,  
        constraint pk_Blueprint primary key (blueprintId)  
);
```

--@|*

```
create table BlueprintVersions  
(  
    version decimal(28, 0) not null,  
    blueprintId decimal(28, 0) not null,  
    name varchar(256) not null,  
    description varchar(512) not null,  
    isScenario bit not null,  
    creationDate datetime not null,  
    lastModifiedDate datetime not null,  
    constraint pk_BlueprintV primary key (blueprintId, version)  
);
```

--@|*

-- Table: PropertyCategory

```
create table PropertyCategory  
(  
    version decimal(28, 0) default 0 not null,  
    propertyCategoryId decimal(28, 0) identity not null,  
    name varchar(256) not null,  
    description varchar(512) not null,  
    creationDate datetime not null,  
    lastModifiedDate datetime not null,  
    parent decimal(28, 0) null,  
    componentTypeId decimal(28, 0) null,  
    relationshipTypeId decimal(28, 0) null,  
    posInParent decimal(10, 0) null,  
    logIt bit not null,  
    autoExpand bit not null,  
    uuid varchar(256) not null,  
    useInPrefix bit default 0 not null,  
    constraint pk_PropertyCategory primary key (propertyCategoryId)  
);
```

--@|*

```
create table PropertyCategoryVersions  
(  
    version decimal(28, 0) default 0 not null,  
    propertyCategoryId decimal(28, 0) not null,  
    name varchar(256) not null,
```

```
description varchar(512) not null,  
creationDate datetime not null,  
lastModifiedDate datetime not null,  
parent decimal(28, 0) null,  
componentTypeId decimal(28, 0) null,  
relationshipTypeId decimal(28, 0) null,  
posInParent decimal(10, 0) null,  
logIt bit not null,  
autoExpand bit not null,  
uuid varchar(256) not null,  
useInPrefix bit default 0 not null,  
constraint pk_PropertyCategoryV primary key (propertyCategoryId, version)  
);
```

--@|*

-- Table: PropertyValue [boston]

```
create table PropertyValue  
(  
    version decimal(28, 0) default 1 not null,  
    propertyValueId decimal(28, 0) identity not null,  
    propertyDefinitionId decimal(28, 0) not null,  
    creationDate datetime not null,  
    lastModifiedDate datetime not null,  
    value varchar(255) not null,  
    valueDate dateTime null,  
    valueNumeric decimal(28,6) null,  
    componentId decimal(28, 0) null,  
    relationshipId decimal(28, 0) null,  
    missing bit not null,  
    invalid bit not null,  
    tempId1 varchar(29) null, -- extra field for temporary use  
    listValuesChanged bit default 0 not null, -- flag field, set to 1 if  
the list values changed (force version/log entry)  
    propertyDefinitionVersion decimal(28, 0) not null,  
    valueUpper varchar(255) null,  
    lastModifyingUser varchar(256) null,  
    propertyMetadata varchar(256) null,  
    constraint pk_Property primary key (propertyValueId)  
);
```

--@|*

```
create table PropertyValueVersions  
(  
    version decimal(28, 0) default 1 not null,  
    propertyValueId decimal(28, 0) not null,  
    propertyDefinitionId decimal(28, 0) not null,  
    creationDate datetime not null,
```

```
        lastModifiedDate datetime not null,
        value varchar(255) not null,
        valueDate dateTime null,
        valueNumeric decimal(28,6) null,
        componentId decimal(28, 0) null,
        relationshipId decimal(28, 0) null,
        missing bit not null,
        invalid bit not null,
        tempId1 varchar(29) null, -- extra field for temporary use
        listValuesChanged bit default 0 not null, -- flag field, set to 1 if
the list values changed (force version/log entry)
        propertyDefinitionVersion decimal(28, 0) not null,
        valueUpper varchar(255) null,
        lastModifyingUser varchar(256) null,
        propertyMetadata varchar(256) null,
        constraint pk_PropertyV primary key (propertyValueId, version)
);
```

--@|*

```
create table PropertyValueListItemVersions
(
    Id decimal(28, 0) identity not null,
    version decimal(28, 0) default 1 not null,
    propertyValueId decimal(28, 0) not null,
    listIndex int not null,
    value varchar(255) not null,
    valueDate dateTime null,
    valueNumeric decimal(28,6) null,
    propertyDefinitionVersion decimal(28, 0) not null,
    valueUpper varchar(255) null,
    invalid bit not null,
    constraint pk_PropertyVLIV primary key (propertyValueId, listIndex,
version)
);
```

--@|*

```
create table PropertyValueLinkVersions
(
    Id decimal(28, 0) identity not null,
    version decimal(28, 0) default 1 not null,
    propertyValueId decimal(28, 0) not null,
    listIndex int not null,
    valueURL varchar(255) null,
    valueLinkText varchar(255) null,
    propertyDefinitionVersion decimal(28, 0) not null,
    valueURLUpper varchar(255) null,
    valueLinkTextUpper varchar(255) null,
    invalid bit not null,
    constraint pk_PropertyVLV primary key (propertyValueId, listIndex,
version)
);
```

--@|*

```
create table PropertyValueBigTextVersions
(
    Id decimal(28, 0) identity not null,
    version decimal(28, 0) default 1 not null,
    propertyValueId decimal(28, 0) not null,
    listIndex int not null,
    value text not null,
    propertyDefinitionVersion decimal(28, 0) not null,
    constraint pk_PropertyVBTV primary key (propertyValueId, listIndex,
version)
)
```

--@|*

-- Table: CategoryTree


```
create table CategoryTree
(
    descendantId decimal(28, 0) not null,
    ancestorId decimal(28, 0) not null,
    depth int not null
);
```


-- Table: Icon


```
create table Icon
(
    version decimal(28, 0) default 0 not null,
    iconId decimal(28, 0) identity not null,
    imageData image not null,
    smallImageData image null,
    creationDate datetime not null,
    logIt bit not null,
    uuid varchar(256) not null,
    constraint pk_Icon primary key (iconId)
)
```

--@|*

```
create table IconVersions
(
    version decimal(28, 0) default 0 not null,
    iconId decimal(28, 0) not null,
    imageData image not null,
    smallImageData image null,
```

```
        creationDate datetime not null,  
        logIt bit not null,  
        uuid varchar(256) not null,  
        constraint pk_IconV primary key (iconId, version)  
    )
```

--@|*

-- Table: ComponentType [Boston]

```
create table ComponentType  
(  
    version decimal(28, 0) default 1 not null,  
    componentTypeId decimal(28, 0) identity not null,  
    name varchar(50) not null,  
    uuid varchar(256) not null,  
    description varchar(512) not null,  
    iconId decimal(28, 0) not null,  
    componentLabel varchar(128) null,  
    parent decimal(28, 0) null,  
    creationDate datetime not null,  
    lastModifiedDate datetime not null,  
    color varchar(7) not null,  
    shape varchar(30) not null,  
    disabled bit not null,  
    abstract bit not null,  
    createURL varchar(256) null,  
    editURL varchar(256) null,  
    deleteURL varchar(256) null,  
    nameUpper varchar(50) null,  
    constraint pk_ComponentType primary key (componentTypeId)  
);
```

--@|*

```
create table ComponentTypeVersions  
(  
    version decimal(28, 0) not null,  
    componentTypeId decimal(28, 0) not null,  
    name varchar(50) not null,  
    uuid varchar(256) not null,  
    description varchar(512) not null,  
    iconId decimal(28, 0) not null,  
    componentLabel varchar(128) null,  
    parent decimal(28, 0) null,  
    creationDate datetime not null,  
    lastModifiedDate datetime not null,  
    color varchar(7) not null,  
    shape varchar(30) not null,  
    disabled bit not null,  
    abstract bit not null,
```



```
        createURL varchar(256) null,  
        editURL varchar(256) null,  
        deleteURL varchar(256) null,  
        nameUpper varchar(50) null,  
        constraint pk_ComponentTypeV primary key (componentTypeId, version)  
);
```

--@|*

-- Table: NumComponentsInType

```
create table NumComponentsInType  
(  
    componentTypeId decimal(28, 0) not null,  
    numComponents decimal(10, 0) not null,  
    blueprintId decimal(28, 0) not null  
);  
--@|*
```

-- Table: Component

```
create table Component  
(  
    version decimal(28, 0) default 0 not null,  
    componentId decimal(28, 0) identity not null,  
    name varchar(256) not null,  
    description varchar(512) not null,  
    creationDate datetime not null,  
    lastModifiedDate datetime not null,  
    owningBlueprintId decimal(28, 0) not null,  
    tempId1 varchar(29) null, -- extra field for temporary use  
    typeId decimal(28, 0) not null,  
    parent decimal(28, 0) default -1 not null,  
    logIt bit not null,  
    numSubcomponents decimal(10, 0) default 0 not null,  
    color varchar(7) null,  
    nameUpper varchar(256) null,  
    constraint pk_Component primary key (componentId)  
);  
--@|*
```

```
create table ComponentVersions  
(  
    version decimal(28, 0) default 0 not null,  
    componentId decimal(28, 0) not null,
```

```
        name varchar(256) not null,
        description varchar(512) not null,
        creationDate datetime not null,
        lastModifiedDate datetime not null,
        owningBlueprintId decimal(28, 0) not null,
        tempId1 varchar(29) null, -- extra field for temporary use
        typeId decimal(28, 0) not null,
        parent decimal(28, 0) default -1 not null,
        logIt bit not null,
        numSubcomponents decimal(10, 0) default 0 not null,
        color varchar(7) null,
        nameUpper varchar(256) null,
        constraint pk_ComponentV primary key (componentId, version)
    );
```

--@|*

-- Table: ComponentTree

```
create table ComponentTree
(
    descendantId decimal(28, 0) not null,
    ancestorId decimal(28, 0) not null,
    depth int not null
);
```

--@|*

-- Table: ComponentTypeTree

```
create table ComponentTypeTree
(
    descendantId decimal(28, 0) not null,
    ancestorId decimal(28, 0) not null,
    depth decimal(28, 0) not null
);
```

--@|*

-- Table: RelationshipType

```
create table RelationshipType
(
    version decimal(28, 0) default 1 not null,
```

```
relationshipTypeId decimal(28, 0) identity not null,  
name varchar(50) not null,  
description varchar(512) not null,  
color varchar(7) not null,  
creationDate datetime not null,  
lastModifiedDate datetime not null,  
label1 varchar(128) not null,  
label2 varchar(128) not null,  
comp1EndType int not null,  
comp2EndType int not null,  
comp1DepsOnComp2 bit not null,  
comp2DepsOnComp1 bit not null,  
parent decimal(28, 0) null,  
uuid varchar(256) not null,  
disabled bit not null,  
nameUpper varchar(50) null,  
constraint pk_RelationshipType primary key (relationshipTypeId)  
);  
  
--@|*  
  
create table RelationshipTypeVersions  
(  
    version decimal(28, 0) not null,  
    relationshipTypeId decimal(28, 0) not null,  
    name varchar(50) not null,  
    description varchar(512) not null,  
    color varchar(7) not null,  
    creationDate datetime not null,  
    lastModifiedDate datetime not null,  
    label1 varchar(128) not null,  
    label2 varchar(128) not null,  
    comp1EndType int not null,  
    comp2EndType int not null,  
    comp1DepsOnComp2 bit not null,  
    comp2DepsOnComp1 bit not null,  
    parent decimal(28, 0) null,  
    uuid varchar(256) not null,  
    disabled bit not null,  
    nameUpper varchar(50) null,  
    constraint pk_RelationshipTypeV primary key (relationshipTypeId,  
version)  
);  
  
--@|*
```

```
-----  
-- Table: Relationship  
-----
```

```
create table Relationship  
(
```

```
        version decimal(28, 0) default 0 not null,
relationshipId decimal(28, 0) identity not null,
        description varchar(512) not null,
        creationDate datetime not null,
        lastModifiedDate datetime not null,
        owningBlueprintId decimal(28, 0) not null,
        firstComponentId decimal(28, 0) not null,
        secondComponentId decimal(28, 0) not null,
        tempId1 varchar(29) null, -- extra field for temporary use
        staleDate datetime default '1-JAN-1901' not null,
        typeId decimal(28, 0) not null,
        relDiscoveryRuleId decimal(28, 0) null,
        discoveryComponentId decimal(28, 0) null,
        color char(7) null,
        constraint pk_Relationship primary key (relationshipId)
);

--@|*

create table RelationshipVersions
(
        version decimal(28, 0) default 0 not null,
relationshipId decimal(28, 0) not null,
        description varchar(512) not null,
        creationDate datetime not null,
        lastModifiedDate datetime not null,
        owningBlueprintId decimal(28, 0) not null,
        firstComponentId decimal(28, 0) not null,
        secondComponentId decimal(28, 0) not null,
        tempId1 varchar(29) null, -- extra field for temporary use
        staleDate datetime default '1-JAN-1901' not null,
        typeId decimal(28, 0) not null,
        relDiscoveryRuleId decimal(28, 0) null,
        discoveryComponentId decimal(28, 0) null,
        color char(7) null,
        constraint pk_RelationshipV primary key (relationshipId, version)
);

--@|*

-----
-----
-- Table: ComponentToRelationship
-----
-----

create table ComponentToRelationship
(
        componentId decimal(28, 0) not null,
        relationshipId decimal(28, 0) not null,
        dependsOn bit not null,
        requiredFor bit not null,
        constraint pk_CompToRel primary key (componentId, relationshipId)
)
```

--@|*

-- Table: RelationshipTypeTree

create table RelationshipTypeTree
(
 descendantId decimal(28, 0) not null,
 ancestorId decimal(28, 0) not null,
 depth decimal(28, 0)
);

--@|*

-- Table: TrouxCheck -- "Check" is a reserved word. [Boston]

create table TrouxCheck
(
 version decimal(28, 0) default 0 not null,
 checkId decimal(28, 0) identity not null,
 name varchar(256) not null,
 description varchar(512) not null,
 data text not null,
 creationDate datetime not null,
 lastModifiedDate datetime not null,
 componentTypeId decimal(28, 0) null,
 relationshipTypeId decimal(28, 0) null,
 scriptLanguage varchar(80) not null,
 logIt bit not null,
 uuid varchar(256) not NULL ,
 constraint pk_TrouxCheck primary key (checkId)
);

--@|*

create table TrouxCheckVersions
(
 version decimal(28, 0) default 0 not null,
 checkId decimal(28, 0) not null,
 name varchar(256) not null,
 description varchar(512) not null,
 data text not null,
 creationDate datetime not null,
 lastModifiedDate datetime not null,
 componentTypeId decimal(28, 0) null,
 relationshipTypeId decimal(28, 0) null,
 scriptLanguage varchar(80) not null,

```
        logIt bit not null,  
        uuid varchar(256) not NULL ,  
        constraint pk_TrouxCheckV primary key (checkId, version)  
);
```

--@|*

-- Table: ProcessRunType

```
create table ProcessRunType  
(  
    processRunType decimal(28, 0) not null,  
    name varchar(1024) not null,  
    constraint pk_ProcessRunType primary key (processRunType)  
);
```

--@|*

-- Table: ProcessRun

```
create table ProcessRun  
(  
    processRunId decimal(28, 0) identity not null,  
    blueprintId decimal(28, 0) not null,  
    processRunType decimal(28, 0) not null,  
    runTime datetime not null,  
    constraint pk_ProcessRun primary key (processRunId)  
);
```

--@|*

-- Table: TrouxEventType

```
create table TrouxEventType  
(  
    eventTypeId decimal(28, 0) not null,  
    name varchar(256) not null,  
    constraint pk_TrouxEventType primary key (eventTypeId)  
);
```

--@|*

-- Table: TrouxEvents

create table TrouxEvents

(
 eventId decimal(28, 0) identity not null,
 name varchar(256) not null,
 description varchar(1024) not null,
 processRunId decimal(28, 0) not null,
 eventKey varchar(256),
 eventType decimal(28, 0) not null,
 status int not null,
 creationDate datetime not null,
 lastModifiedDate datetime not null,
 constraint pk_TrouxEvents primary key (eventId)
);

--@|*

-- Table: ObjectToEvent

create table ObjectToEvent

(
 objectToEventId decimal(28, 0) identity not null,
 eventId decimal(28, 0) not null,
 componentId decimal(28, 0) null,
 relationshipId decimal(28, 0) null,
 blueprintId decimal(28, 0) null,
 status int not null,
 constraint pk_ObjectToEvent primary key(objectToEventId)
);

--@|*

-- Table: EventMsg

create table EventMsg

(
 eventMsgId decimal(28, 0) identity not null,
 objectToEventId decimal(28, 0) not null,
 msg varchar(1024) not null,
 constraint pk_EventMsg primary key(eventMsgId)
);

--@|*

-- Table: ServerCommonSettings

```
-----  
-----  
  
create table ServerCommonSettings  
(  
    defaultQueryId decimal(28, 0) null,  
    isOffline bit default 0 not null  
)  
  
--@|*  
  
-----  
-----  
-- Table: TempData  
-----  
-----  
  
create table TempData  
(  
    objectId decimal(28, 0) not null,  
    objectId2 decimal(28, 0) null,  
    serverId decimal(28, 0) not null,  
    serverCounter decimal(28, 0) not null  
)  
  
--@|*  
  
-----  
-----  
-- Table: ScheduledTask  
-----  
-----  
  
create table ScheduledTask  
(  
    taskName varchar(512) not null,  
    lastRunOn datetime null  
)  
  
--@|*  
  
-----  
-----  
-- Table: TrouxEnumeration  
-----  
-----  
  
create table TrouxEnumeration  
(  
    trouxEnumerationId decimal(28, 0) IDENTITY NOT NULL ,  
    name varchar(50) NOT NULL ,  
    description varchar(512) NULL ,  
    uuid varchar(256) not NULL ,  
    version decimal(28, 0) default 1 NOT NULL ,  
    creationDate datetime NOT NULL ,  
    lastModifiedDate datetime NOT NULL ,  
    constraint pk_TrouxEnumeration primary key (trouxEnumerationId)  
)  
  
--@|*
```



```
create table TrouxEnumerationVersions
(
    trouxEnumerationId decimal(28, 0) NOT NULL ,
    name varchar(50) NOT NULL ,
    description varchar(512) NULL ,
    uuid varchar(256) not NULL ,
    version decimal(28, 0) default 0 NOT NULL ,
    creationDate datetime NOT NULL ,
    lastModifiedDate datetime NOT NULL ,
    constraint pk_TrouxEnumerationV primary key (trouxEnumerationId,
version)
)
```

--@|*

-- Table: TrouxEnumerationValue

```
create table TrouxEnumerationValue (
    trouxEnumerationValueId decimal(28, 0) IDENTITY NOT NULL ,
    enumerationKey int NOT NULL ,
    enumerationValue varchar(256) NOT NULL ,
    uuid varchar(256) not NULL,
    version decimal(28, 0) default 1 NOT NULL ,
    creationDate datetime NOT NULL ,
    lastModifiedDate datetime NOT NULL ,
    trouxEnumerationId decimal(28, 0) NOT NULL ,
    enumerationValueUpper varchar(256) NULL ,
    constraint pk_TrouxEnumerationValue primary key
(trouxEnumerationValueId)
)
```

--@|*

```
create table TrouxEnumerationValueVersions (
    trouxEnumerationValueId decimal(28, 0) NOT NULL ,
    enumerationKey int NOT NULL ,
    enumerationValue varchar(256) NOT NULL ,
    uuid varchar(256) not NULL,
    version decimal(28, 0) NOT NULL ,
    creationDate datetime NOT NULL ,
    lastModifiedDate datetime NOT NULL ,
    trouxEnumerationId decimal(28, 0) NOT NULL ,
    enumerationValueUpper varchar(256) NULL ,
    constraint pk_TrouxEnumerationValueV primary key
(trouxEnumerationValueId, version)
)
```

-- Table: RelDiscoveryRule

create table RelDiscoveryRule

```
(
    relDiscoveryRuleId decimal(28, 0) IDENTITY NOT NULL,
    name varchar(256) NOT NULL ,
    description varchar(512) NULL ,
    uuid varchar(256) not NULL ,
    relationshipTypeId decimal(28, 0) NOT NULL,
    data text not null,
    scriptLanguage varchar(80) null,
    componentTypeId decimal(28, 0) NOT NULL,
    version decimal(28, 0) default 0 NOT NULL ,
    creationDate datetime NOT NULL ,
    lastModifiedDate datetime NOT NULL ,
    logIt bit not null,
    constraint pk_RelDiscoveryRule primary key (relDiscoveryRuleId)
)
```

--@|*

create table RelDiscoveryRuleVersions

```
(
    relDiscoveryRuleId decimal(28, 0) NOT NULL,
    name varchar(256) NOT NULL ,
    description varchar(512) NULL ,
    uuid varchar(256) not NULL ,
    relationshipTypeId decimal(28, 0) NOT NULL,
    data text not null,
    scriptLanguage varchar(80) null,
    componentTypeId decimal(28, 0) NOT NULL,
    version decimal(28, 0) default 1 NOT NULL ,
    creationDate datetime NOT NULL ,
    lastModifiedDate datetime NOT NULL ,
    logIt bit not null,
    constraint pk_RelDiscoveryRuleV primary key (relDiscoveryRuleId,
version)
)
```

-- Table: PropertyDefinition [Boston]

create table PropertyDefinition

```
(
    propertyDefinitionId decimal(28, 0) identity not null,
    name varchar(256) not null,
    description varchar(512) not null,
    uuid varchar(256) not null,
    dataType int not null,
    isList bit not null,
    isRequired bit not null,
    componentTypeId decimal(28, 0) null,
    relationshipTypeId decimal(28, 0) null,
    propertyCategoryId decimal(28, 0) not null,
)
```

```
trouxEnumerationId decimal(28, 0) null,  
dataPrecision int null,  
defaultValue varchar(256) null,  
defaultValueNumeric decimal(22, 6) null,  
defaultValueDate dateTime null,  
viewInSummary bit not null,  
viewInAddEdit bit not null,  
viewInQueryParms bit not null,  
viewInDiagramExport bit not null,  
creationDate datetime not null,  
lastModifiedDate datetime not null,  
version decimal(28, 0) default 1 not null,  
posInParent int default -1 not null,  
daysOfHistory int null,  
startsMissing bit not null,  
listValuesChanged bit default 0 not null, -- flag field, set to 1 if  
the list values changed (force version/log entry)  
constraint pk_PropertyDefinition primary key (propertyDefinitionId)  
)
```

--@|*

create table PropertyDefinitionVersions

```
(  
    propertyDefinitionId decimal(28, 0) not null,  
    name varchar(256) not null,  
    description varchar(512) not null,  
    uuid varchar(256) not null,  
    dataType int not null,  
    isList bit not null,  
    isRequired bit not null,  
    componentTypeId decimal(28, 0) null,  
    relationshipTypeId decimal(28, 0) null,  
    propertyCategoryId decimal(28, 0) null,  
    trouxEnumerationId decimal(28, 0) null,  
    dataPrecision int null, -- precision is reserved  
    defaultValue varchar(256) null,  
    defaultValueNumeric decimal(22, 6) null,  
    defaultValueDate dateTime null,  
    viewInSummary bit not null,  
    viewInAddEdit bit not null,  
    viewInQueryParms bit not null,  
    viewInDiagramExport bit not null,  
    creationDate datetime not null,  
    lastModifiedDate datetime not null,  
    version decimal(28, 0) not null,  
    posInParent int default -1 not null,  
    daysOfHistory int null,  
    startsMissing bit not null,  
    listValuesChanged bit default 0 not null, -- flag field, set to 1 if  
the list values changed (force version/log entry)  
    constraint pk_PropertyDefinitionV primary key (propertyDefinitionId,  
version)  
)
```

--@|*

```
create table DefaultListValues
(
    listIndex decimal(28, 0) not null,
    propertyDefinitionId decimal (28, 0) not null,
    defaultValue varchar(256) null,
    defaultValueNumeric decimal(22, 6) null,
    defaultValueDate dateTime null,
    constraint pk_DefaultListValues primary key (listIndex,
propertyDefinitionId)
)
```

--@|*

```
create table DefaultLinkValues
(
    listIndex decimal(28, 0) not null,
    propertyDefinitionId decimal (28, 0) not null,
    defaultValueURL varchar(256) null,
    defaultValueLinkText varchar(256) null,
    constraint pk_DefaultLinkValues primary key (listIndex,
propertyDefinitionId)
)
```

--@|*

```
create table DefaultBigTextValues
(
    listIndex decimal(28, 0) not null,
    propertyDefinitionId decimal(28, 0) not null,
    defaultValue text not null,
    constraint pk_DefaultBigTextValues primary key (listIndex,
propertyDefinitionId)
)
```

--@|*

-- Table: ConstraintDefinition [Boston]

```
create table ConstraintDefinition
(
    constraintDefinitionId decimal(28, 0) identity not null,
    version decimal(28, 0) default 1 not null,
    componentTypeId decimal(28, 0) null,
    relationshipTypeId decimal(28, 0) null,
    propertyDefinitionId decimal(28, 0) not null,
    minimumNumber decimal(22, 6) null,
    maximumNumber decimal(22, 6) null,
    minimumDate dateTime null,

```

```
        maximumDate datetime null,  
        creationDate datetime not null,  
        lastModifiedDate datetime not null,  
        isEnumerationConstraint bit not null,  
        constraint pk_ConstraintDefinition primary key (constraintDefinitionId)  
    )
```

--@|*

```
create table ConstraintDefinitionVersions  
(  
    constraintDefinitionId decimal(28, 0) not null,  
    version decimal(28, 0) not null,  
    componentTypeId decimal(28, 0) null,  
    relationshipTypeId decimal(28, 0) null,  
    propertyDefinitionId decimal(28, 0) not null,  
    minimumNumber decimal(28, 0) null,  
    maximumNumber decimal(28, 0) null,  
    minimumDate datetime null,  
    maximumDate datetime null,  
    creationDate datetime not null,  
    lastModifiedDate datetime not null,  
    isEnumerationConstraint bit not null,  
    constraint pk_ConstraintDefinitionV primary key  
(constraintDefinitionId, version)  
)
```

--@|*

-- Table: TrouxEnumerationConstraint [Boston]

```
create table TrouxEnumerationConstraint  
(  
    constraintDefinitionId decimal(28, 0) not null,  
    trouxEnumerationValueId decimal(28, 0) not null  
)
```

--@|*

-- Table: TrouxPrivilegeScope

```
create table TrouxPrivilegeScope  
(  
    scopeId decimal(28, 0) not null,  
    name varchar(256) not null,  
    constraint pk_TrouxPScope primary key (scopeId)  
)
```

--@|*

-- Table: TrouxPrivilege

create table TrouxPrivilege
(
 privilegeId decimal(28, 0) identity not null,
 name varchar(256) not null,
 description varchar(512) null,
 scopeId decimal(28, 0) not null,
 constraint pk_TrouxPrivilege primary key (privilegeId)
)

--@|*

-- Table: TrouxRole

create table TrouxRole
(
 roleId decimal(28, 0) identity not null,
 uuid varchar(256) not null,
 name varchar(256) not null,
 description varchar(512) null,
 scopeId decimal(28, 0) not null,
 constraint pk_TrouxRole primary key (roleId)
)

--@|*

-- Table: TrouxGroup

create table TrouxGroup
(
 groupId decimal(28, 0) identity not null,
 uuid varchar(256) not null,
 name varchar(256) not null,
 description varchar(512) null,
 defaultqueryId decimal(28, 0) null,
 constraint pk_TrouxGroup primary key (groupId)
)

--@|*

-- Table: TrouxRoleToPrivilege

```
-----
-----
create table TrouxRoleToPrivilege
(
    roleId decimal(28, 0) not null,
    privilegeId decimal(28, 0) not null,
    constraint pk_RoleToPriv primary key (roleId, privilegeId)
)
```

--@|*

```
-----
-----
-- Table: TrouxGroupToSystemRole
-----
-----
```

```
create table TrouxGroupToSystemRole
(
    groupId decimal(28, 0) not null,
    roleId decimal(28, 0) not null,
    constraint pk_GroupToSRole primary key (groupId, roleId)
)
```

--@|*

```
-----
-----
-- Table: ExtUsers
-----
-----
```

```
create table ExtUsers
(
    extusersId decimal(28, 0) identity not null,
    name varchar(256) not null,
    password varchar(256) not null,
    constraint pk_ExtUsers primary key (extusersId)
);
```

--@|*

```
-----
-----
-- Table: ExtUser2Group
-----
-----
```

```
create table ExtUser2Group
(
    extuser2groupId decimal(28, 0) identity not null,
    extuserId decimal(28, 0) not null,
    extgroupId decimal(28, 0) not null,
    constraint pk_ExtUser2Group primary key (extuser2groupId)
);
```

--@|*

-- Table: ExtGroup


```
create table ExtGroup
(
    extgroupId decimal(28, 0) identity not null,
    name varchar(256) not null,
    constraint pk_ExtGroup primary key (extgroupId)
);
```

--@|*

```
create view UsersTomcatView as
select ExtUsers.name, ExtGroup.name GroupName
from ExtUsers, ExtUser2Group, ExtGroup
where ExtUsers.extusersId = ExtUser2Group.extuserId and
      ExtUser2Group.extgroupId = ExtGroup.extgroupId
```

--@|*

-- Table: TrouxGroupToQuery


```
CREATE TABLE TrouxGroupToQuery (
    trouxgrouptoqueryId decimal(28, 0) IDENTITY NOT NULL ,
    groupId decimal(28, 0) NOT NULL ,
    queryId decimal(28, 0) NOT NULL
);
```

--@|*

-- Table: ExternalUserToTrouxGroup


```
CREATE TABLE ExternalUserToTrouxGroup (
    externalUserName varchar(256) not null,
    groupId decimal(28, 0) not null
);
```

--@|*

-- Table: ExternalGroupToTrouxGroup


```
-----  
-----  
CREATE TABLE ExternalGroupToTrouxGroup (  
    externalGroupName varchar(256) not null,  
    groupId decimal(28, 0) not null  
);
```

--@|*

```
-----  
-----  
-- Table: TrouxAcl  
-----  
-----
```

```
create table TrouxAcl  
(  
    aclId decimal(28, 0) identity not null,  
    componentTypeId decimal(28, 0) null,  
    relationshipTypeId decimal(28, 0) null,  
    propertyCategoryId decimal(28, 0) null,  
    propertyDefinitionId decimal(28, 0) null,  
    constraint pk_TrouxAcl primary key(aclId)  
);
```

--@|*

```
-----  
-----  
-- Table: TrouxAclMembership  
-----  
-----
```

```
create table TrouxAclMembership  
(  
    aclId decimal(28, 0) not null,  
    groupId decimal(28, 0) not null,  
    roleId decimal(28, 0) not null  
);
```

--@|*

```
-----  
-----  
-- Table: IconDeletedUUIDs  
-----  
-----
```

```
create table IconDeletedUUIDs  
(  
    uuid varchar(256) not null  
);
```

--@|*

-- Table: QueryDeletedUUIDs

create table QueryDeletedUUIDs
(
 uuid varchar(256) not null
);

--@|*

-- Table: ComponentTypeDeletedUUIDs

create table ComponentTypeDeletedUUIDs
(
 uuid varchar(256) not null
);

--@|*

-- Table: RelationshipTypeDeletedUUIDs

create table RelationshipTypeDeletedUUIDs
(
 uuid varchar(256) not null
);

--@|*

-- Table: TrouxRoleDeletedUUIDs

create table TrouxRoleDeletedUUIDs
(
 uuid varchar(256) not null
);

--@|*

-- Table: TrouxGroupDeletedUUIDs

create table TrouxGroupDeletedUUIDs
(
 uuid varchar(256) not null
);

--@|*

-- Table: TrouxEnumerationDeletedUUIDs

create table TrouxEnumerationDeletedUUIDs
(
 uuid varchar(256) not null
);

--@|*

-- View: BadPropertiesReport

create view BadPropertiesReport as
select c.owningBlueprintId as blueprintId,
 b.name as blueprintName,
 ct.componentTypeId,
 ct.name as componentTypeName,
 c.name as componentName,
 sum(convert(int,invalid)) as invalid,
 sum(convert(int,missing)) as missing
 from
 Blueprint b,
 ComponentType ct,
 Component c,
 PropertyValue pv
 where ct.componentTypeId = c.typeId
 and pv.componentId = c.componentId
 and c.owningBlueprintId = b.blueprintId
 group by c.owningBlueprintId,
 b.name,
 ct.componentTypeId,
 ct.name,
 c.name
 having
 sum(convert(int,invalid)) > 0
 or
 sum(convert(int,missing)) > 0

--@|*

-- Table: ReportingTableTypeConfig - reporting schema generator config for
types tables

create table ReportingTableTypeConfig

```
(
    reportingTypeId decimal(28, 0) not null,
    reportingTypeName varchar(256) not null,
    reportingTypeTableAlias varchar(256) not null,
    isRelationshipType bit not null,
    rollUpRelationships bit not null,
    constraint pk_ReportingCompTypesConfig primary key
(reportingTypeId, isRelationshipType)
);
```

--@|*

-- Table: ReportingPropertiesConfig - reporting schema generator config for
proeprties on types tables

```
create table ReportingPropertiesConfig
(
    propertyConfigId decimal(28, 0) identity not null,
    componentTypeId decimal(28, 0) null,
    relationshipTypeId decimal(28, 0) null,
    propertyDefinitionId decimal(28, 0) not null,
    propertyAlias varchar(256) not null,
    propertyColumnSize int not null,
    indexOnProperty bit not null,
    constraint pk_ReportingPropertiesConfig primary key (propertyConfigId)
);
```

--@|*

-- Table: ReportingDependsExportConfig - reporting schema generator config
for component dependency tables

```
create table ReportingDependsExportConfig
(
    depExportName varchar(256) not null,
    depExportAlias varchar(128) null,
    depExportComments varchar(512) null,
    depExportType int not null,
    componentTypeId decimal(28, 0) null,
    tq1QueryId decimal(28, 0) null,
    tq1Sql varchar(2000) null,
    numLevels int not null,
    persistExport bit not null,
    direction int not null,
    constraint pk_RptDepExportCfg primary key (depExportName)
);
```

--@|*

-- Table: ReportingJITDependencyTable - reporting schema generator component
dependency table for
-- just in time export


```
create table ReportingJITDependencyTable
(
    priComponentId decimal(28, 0) not null,
    priComponentTypeId decimal(28, 0) not null,
    otherComponentId decimal(28, 0) null,
    otherComponentTypeId decimal(28, 0) null,
    depth decimal(3, 0) not null,
    relationshipId decimal(28, 0) not null,
    serverId decimal(28, 0) not null,
    serverCounter decimal(28, 0) not null
);
```

--@|*

-- Table: PropertyDefinitionOldUUIDs - used in the Import/Export step to
allow the reparenting to be
-- triggered correctly.


```
create table PropertyDefinitionOldUUIDs
(
    propertyDefinitionId decimal(28, 0) not null,
    oldTypeUUID varchar(256) not null,
    oldTypeParentUUID varchar(256) not null,
    oldUUID varchar(256) not null
);
```

--@|*

-- Table: PropertyCategoryOldUUIDs - used in the Import/Export step to allow
the reparenting to be
-- triggered correctly.


```
create table PropertyCategoryOldUUIDs
(
    propertyCategoryId decimal(28, 0) not null,
    oldTypeUUID varchar(256) not null,
```

```
        oldTypeParentUUID varchar(256) not null,  
        oldUUID varchar(256) not null  
    );
```

--@|*

-- Table: PropertyTypeReference - Reference table that defines what property
-- type codes mean


```
create table PropertyTypeReference  
(  
    propertyTypeId int not null,  
    description varchar(256) not null,  
    constraint pk_PropertyTypeReference primary key (propertyTypeId)  
);
```

--@|*